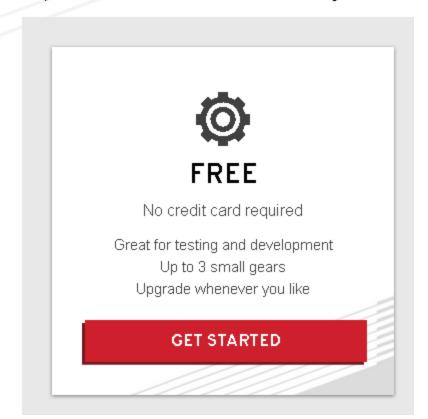
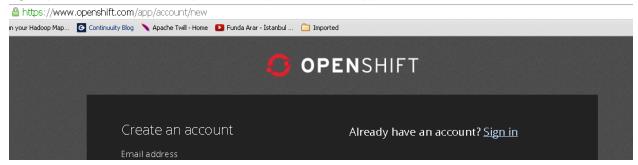
(laaS) (PaaS) Red Hat Open Shift OpenShift Online Pricing

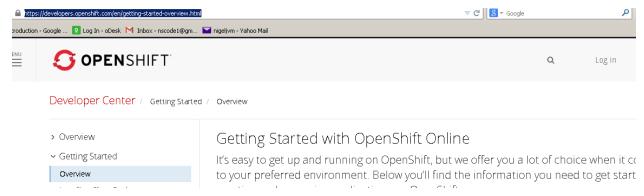


Step 1

sign up for an account at https://www.openshift.com/app/account/new



verify account from email redirects to this page https://developers.openshift.com/en/getting-started-overview.html https://openshift.redhat.com/app/console/applications



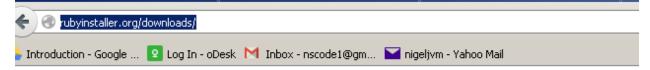
You can create up to 3 applications with your free resources, but to use all 3 gears for one application, you can create a <u>scalable app</u>.

Openshift provides 3 small gears per user account. Each gear has 512MB of memory (small gear) and 1GB of storage. It is not possible to combine them to make one gear with 1.5GB of memory and 3GB of storage.

Step 2

Command Line Tools (RHC)

1. http://rubyinstaller.org/downloads/ version 1.9.3



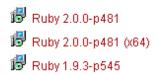


Downloads

RubyInstallers

Archives»

Not sure what version to download? Please read the right column for recommendations.



Step 3

Install Git http://git-scm.com/download/win

Step 4

Install Red Hat command line tools C:Files> gem install rhc

```
Command Prompt
 Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\n\gem install rhc
Fetching: net-ssh-2.9.1.gem (100%)
Fetching: net-scp-1.2.1.gem (100%)
Fetching: net-ssh-gateway-1.2.0.gem (100%)
Fetching: net-ssh-multi-1.2.0.gem (100%)
Fetching: archive-tar-minitar-0.5.2.gem (100%)
Fetching: highline-1.6.21.gem (100%)
Fetching: commander-4.2.0.gem (100%)
Fetching: httpclient-2.4.0.gem (100%)
Fetching: open4-1.3.4.gem (100%)
Fetching: rhc-1.29.7.gem (100%)
  If this is your first time installing the RHC tools, please run 'rhc setup'
   _______
 Successfully installed net-ssh-2.9.1
Successfully installed net-scp-1.2.1
Successfully installed net-ssh-gateway-1.2.0
Successfully installed net-ssh-multi-1.2.0
Successfully installed archive-tar-minitar-0.5.2
Successfully installed highline-1.6.21
Successfully installed commander-4.2.0
Successfully installed ttpclient-2.4.0
Successfully installed open4-1.3.4
Successfully installed rhc-1.29.7
Successfully installed rhc-1.29.7

10 gems installed
Installing ri documentation for net-ssh-2.9.1...
Installing ri documentation for net-scp-1.2.1...
Installing ri documentation for net-ssh-gateway-1.2.0...
Installing ri documentation for net-ssh-multi-1.2.0...
Installing ri documentation for archive-tar-minitar-0.5.2...
Installing ri documentation for highline-1.6.21...
Installing ri documentation for commander-4.2.0...
Installing ri documentation for httpclient-2.4.0...
Installing ri documentation for open4-1.3.4...
Installing ri documentation for net-ssh-2.9.1...
Installing RDoc documentation for net-ssh-2.9.1...
Installing RDoc documentation for net-ssh-gateway-1.2.0...
Installing RDoc documentation for net-scp-1.2.1...
Installing RDoc documentation for net-ssh-gateway-1.2.0...
Installing RDoc documentation for net-ssh-multi-1.2.0...
Installing RDoc documentation for archive-tar-minitar-0.5.2...
Installing RDoc documentation for highline-1.6.21...
Installing RDoc documentation for commander-4.2.0...
Installing RDoc documentation for httpclient-2.4.0...
Installing RDoc documentation for open4-1.3.4...
Installing RDoc documentation for rhc-1.29.7...
  C:\Users\n>
```

rhc setup

generates a ssh key and uploads it

```
enerate a token now? (yes|no) yes
enerating an authorization token for this client ... lasts about 1 month
aving configuration to C:\Users\n\.openshift\express.conf ... done
lo SSH keys were found. We will generate a pair of keys for you.

Created: C:\Users\n\.ssh\id_rsa.pub
our public SSH key must be uploaded to the OpenShift server to access code.
pload now? (yes|no)
es
```

create a namespace for your applications

```
Please enter a namespace (letters and numbers only) |\(\(\)(none\)|: eduonix
Your domain 'eduonix' has been successfully created
```

finally will list all the applications you can create

```
Run 'rhc create-app' to create your first application.
                                                                                                                                             rhc create-app <app name> diy-0.1
rhc create-app <app name> jbossas-7
rhc create-app <app name>
jboss-dv-6.0.0
       Do-It-Yourself 0.1
JBoss Application Server 7
JBoss Data Virtualization 6
       JBoss Enterprise Application Platform rhc create-app <app name> jbosseap-6
                                                                                                                                            rhc create-app (app name)
       Jenkins Server
                                                                                                                                                                                                                                       jenkins-1
                                                                                                                                                                                                                                       nodejs-0.10
php-5.3
php-5.4
zend-6.1
       Node.js 0.10
PHP 5.3
PHP 5.4
      PHP 5.4
PHP 5.4 with Zend Server 6.1
Perl 5.10
Python 2.6
Python 2.7
Python 3.3
Ruby 1.8
Ruby 1.9
Ruby 2.0
Tomcat 6 (JBoss EWS 1.0)
Tomcat 7 (JBoss EWS 2.0)
Vert.x 2.1
                                                                                                                                                                                                                                       perl-5.10
python-2.6
python-2.7
                                                                                                                                                                                                                                        python-3.3
                                                                                                                                                                                                                                        ruby-1.8
                                                                                                                                                                                                                                        ruby-1.9
                                                                                                                                                                                                                                       ruby-2.0
jbossews-1.0
                                                                                                                                                                                                                                        jbossews-2.0
```

Step 5

Create an application with a cartrifge rhc app create eduonix diy-0.1

```
C:\Users\n>rhc app create eduonix diy-0.1
Application Options
Domain:
Cartridges:
                         eduonix
                         diy-0.1
default
 Gear Size:
Scaling:
                         DΩ
 Creating application 'eduonix' ... done
Disclaimer: This is an experimental cartridge that provides a way to try unsup
ported languages, frameworks, and middleware on OpenShift.
Waiting for your DNS name to be available ... done
Cloning into 'eduonix'...
The authenticity of host 'eduonix-eduonix.rhcloud.com (54.80.213.211)' can't be
established.
established.
RSA key fingerprint is cf:ee:77:cb:0e:fc:02:d7:72:7e:ae:80:c0:90:88:a7.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'eduonix-eduonix.rhcloud.com,54.80.213.211' (RSA) to
the list of known hosts.
remote: Counting objects: 25, done.
remote: Compressing objects: 100% (19/19), done.R
remote: Total 25 (delta 2), reused 25 (delta 2)
Receiving objects: 100% (25/25), 19.29 KiB | 0 bytes/s, done.
Resolving deltas: 100% (2/2), done.
Checking connectivity... done.
Your application 'eduonix' is now available.
    URL: http://eduonix-eduonix.rhcloud.com/
SSH to: 540f88a34382ec93160003ee@eduonix-eduonix.rhcloud.com
Git remote: ssh://540f88a34382ec93160003ee@eduonix-eduonix.rhcloud.com/~/git/e
duonix.git/
Cloned to:
                             C:/Users/n/eduonix
Run 'rhc show-app eduonix' for more details about your app.
C:\Users\n>
```

Step 6

Code Repository structure

there's a folder that's quite interesting for us -. openshift/action hooks:

These are the scripts that OpenShift uses for building, deploying, starting and stopping our app. These scripts are executed on the remote OpenShift server.

```
.openshift/action_hooks/pre_build gets run every git push before the build
.openshift/action_hooks/build gets run every git push
.openshift/action_hooks/start gets run to start your application
theres more
```

Step 7

Work flow

- 1. Add framework of choice to your repo.
- 2. Modify .openshift/action hooks/
- 4. Commit and push your changes.

Step 8

Environment Variables

OpenShift provides several environment variables to reference for ease of use. The following list are some common variables but far from exhaustive and they change all the time: use printenv to see all the current

there are more